



H+E projects: Always a solution

TRAFFIC TUNNELLING UTILITY TUNNELLING MINING + INDUSTRIAL

20 years of Clever Conveying



Dipl. Ing. Gregor Enneking,
Managing Director of H+E Logistik GmbH

H+E Logistik provides conveyor systems for companies aspiring to be big movers. Many years of experience and state-of-the-art engineering expertise have been invested in our conveyor belt systems which have proven themselves in transporting and distributing raw goods, construction material and any type of commodity.

H+E high-tech systems ensure just-in-time project execution even under extreme conditions whether under water, in mega-cities or high-up in mountains. Booster stations, designed for curves, facilitate the construction of tunnels and form the basis for efficient processes. Our conveyor systems can be flexibly designed and thus perfectly adapted on-site to specific requirements. This is particularly beneficial for use in large cities with challenging space conditions.

But we also support clients in places where civilisation has yet to arrive. Even in remote, previously undeveloped areas, our facilities specially adapted to construction site logistics, such as the construction of railway tunnels, have excelled. This also applies to projects with particularly large amounts of excavated materials, such as drilling tunnels for multi-track high-speed lines.

Conveying technology for tunnelling, mining and bulk materials: H+E Logistik has successfully completed around 150 projects worldwide.

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■ **Railway Tunnelling** _ For projects over long distances and extreme quantities of excavated material: H+E keeps on track in time and profitability.



■ **S-979 Railway Tunnel Radimero Dispari, Italy**

Contractor: Cociv



Increased rail mobility – for passengers and freight. Railways are being built all over the world to relieve the pressure on roads. Topographical obstacles often occur during the planning phase and are overcome by building tunnels. Kilometre-long mountain ranges or rivers require traversing, above or below.

Our conveyor systems offer a reliable backup for the transport of excavated material. In every project, top standards in technology and quality as well as our advanced logistics have proven their value.

Tunnel Diameter:	9.70 m
Min. Radius:	> 4,000 m
Mineral:	Coal
TBM Supplier:	Herrenknecht
Conveyor Length:	8,260 m
Belt Width:	800 mm
Capacity:	700 t/h
Installed Power:	1 x 315 kW (Main drive) 2 x 315 kW (Booster)
Belt Storage Capacity:	500 m / horizontal
Installation:	2016



S-948/S-949 Railway Tunnel Toluca, Mexico

Contractor: ICA Ingenieros Civiles Asociados S.A. de C.V.



Tunnel Diameter:	8.57 m
Min. Radius:	> 300 m
Mineral:	Rock / Clay
TBM Supplier:	Herrenknecht
Conveyor Length:	1 x 4,899 m
	1 x 4,909 m
Belt Width:	800 mm
Capacity:	700 t/h
Installed Power:	(2 x) 2 x 160 kW (Main drive)
Belt Storage Capacity:	(2 x) 500 m / horizontal
Installation:	2016



S-799 Railway Tunnel, Ejpovice, Czech Republic

Contractor: Metrostav a.s. Division 5



Tunnel Diameter:	9.72 m
Min. Radius:	> 872 m
Mineral:	EPB
TBM Supplier:	Herrenknecht
Conveyor Length:	4,469 m
Belt Width:	1,000 mm
Capacity:	1,050 t/h
Installed Power:	1 x 355 kW (Main drive)
	1 x 355 kW (Booster)
Belt Storage Capacity:	500 m / horizontal
Installation:	2015



S-833 Railway Tunnel BoBler, Germany

Contractor: Arge Tunnel Alaufstieg



Tunnel Diameter:	10.30 m
Mineral:	EPB
TBM Supplier:	Herrenknecht
Conveyor Length:	9,260 m
	27 m (Stacker)
Belt Width:	1,000 mm
Capacity:	1,300 t/h
Installed Power:	3 x 315 kW (Main drive)
	1 x 200 kW (Booster)
	1 x 132 kW (Transfer Conveyor)
	2 x 37,5 kW (Stacker Conveyor)
Belt Storage Capacity:	600 m / horizontal
Installation:	2015



Railway Tunnel, North West Rail Link, Sydney, Australia

Contractor: Thiess John Holland Dragados TJHD JV



Tunnel Diameter:	6.20 m
Min. Radius:	> 460 m
Mineral:	EPB
TBM Supplier:	NFM Technologies
Conveyor Length:	2 x 4,540 m
	2 x 5,710 m
Belt Width:	800 mm
Capacity:	800 t/h
Installed Power:	2 x 160 kW (Main drive)
	(2 x) 1 x 160 kW (Booster drive)
	2 x 160 kW (Main drive)
	(2 x) 2 x 160 kW (Booster drive)
Belt Storage Capacity:	(2 x) 600 m / horizontal
Installation:	2014



S-807 XRL 825 Railway Tunnel, Hongkong, China

Contractor: Penta-Ocean



Tunnel Diameter:	8.90 m
Min. Radius:	> 500 m
Mineral:	EPB
TBM Supplier:	Herrenknecht
Conveyor Length:	2,300 m
Belt Width:	800 mm
Capacity:	800 t/h
Installed Power:	2 x 160 kW (Main drive)
Belt Storage Capacity:	500 m / horizontal
Installation:	2013



S-705/S-706 Railway Tunnel London Crossrail, United Kingdom

Contractor: BFK / BAM Ferrovial Kier JV



Tunnel Diameter:	6.20 m
Min. Radius:	> 480 m
Mineral:	EPB
TBM Supplier:	Herrenknecht
Conveyor Length:	3,380 m + 3,200 m
Belt Width:	800 mm
Capacity:	650 t/h
Installed Power:	5 x 400 kW
	2 x 110 kW
Belt Storage Capacity:	2 x 500 m / horizontal
Installation:	2012



S-670 LGV Est Railway Tunnel de Saverne, France

Contractor: SPIE BATIGNOLLES TPCI



Tunnel Diameter:	10.00 m
Mineral:	EPB / Hard Rock
TBM Supplier:	Herrenknecht
Conveyor Length:	4,300 m
Belt Width:	1,000 mm
Capacity:	1,000 t/h
Installed Power:	315 kW
Belt Storage Capacity:	500 m / horizontal
First Installation:	2011



S-627 Railway Tunnel, Speed Train, Turkey

Contractor: CENGİZ-İC İÇTAS-BELEN JOINT VENTURE



Tunnel Diameter:	12.50 m
Min. Radius:	> 250 m
Mineral:	Granite
TBM Supplier:	Herrenknecht
Conveyor Length:	6,100 m
Belt Width:	1,000 mm
Capacity:	max. 1,500 t/h
Installed Power:	2 x 315 kW 1 x 160 kW
Belt Storage Capacity:	500 m / horizontal
Installation:	2010



S-547 Railway Tunnel, Ediger-Eller/Cochem, Germany

Contractor: ARGE Neuer Kaiser-Wilhelm-Tunnel



Tunnel Diameter:	10.15 m
Min. Radius:	> 3,000 m
Mineral:	Clay / Sand / Gravel
TBM Supplier:	Herrenknecht
Conveyor Length:	4,550 m
Belt Width:	1,000 mm
Capacity:	1,000 t/h
Installed Power:	3 x 250 kW
Belt Storage Capacity:	500 m / horizontal
First Installation:	2010



S-450 Railway Tunnel, Calle de Mallorca - Barcelona, Spain

Contractor: U.T.E La Sagrera



Tunnel Diameter:	10.40 m
Min. Radius:	> 250 m
Mineral:	Clay / Sand / Gravel
TBM Supplier:	Herrenknecht
Conveyor Length:	5,250 m
Belt Width:	1,000 mm
Capacity:	1,200 t/h
Installed Power:	5 x 132 kW 1 x 90 kW
Belt Storage Capacity:	500 m / horizontal
Installation:	2010

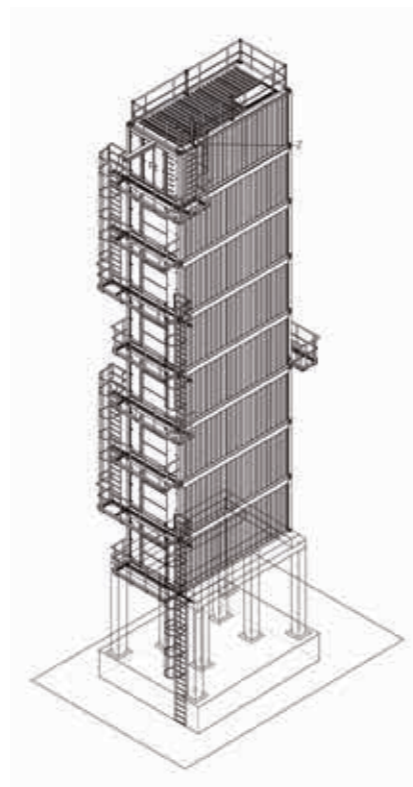


Railway Tunnel No. 3, Sotschi, Russia

Contractor: OAO Bamtonnelstroy



Tunnel Diameter:	9.40 m
Min. Radius:	> 500 m
Mineral:	Lime Rock
TBM Supplier:	Robbins
Conveyor Length:	4,900 m
Belt Width:	1,000 mm
Capacity:	1,300 t/h
Installed Power:	2 x 355 kW 1 x 90 kW
Belt Storage Capacity:	400 m / vertical
Installation:	2010



S-517 Railway Tunnel No. 4, Sotschi, Russia

Contractor: OAO Bamtonnelstroy



Tunnel Diameter:	9.40 m
Min. Radius:	> 500 m
Mineral:	Clay / Sand / Gravel
TBM Supplier:	Herrenknecht
Conveyor Length:	2,500 m
Belt Width:	800 mm
Capacity:	1,000 t/h
Installed Power:	3 x 160 kW
Belt Storage Capacity:	400 m / vertical
Installation:	2010



■ S-535 Concrete Transport Atocha, Railway Tunnel, Madrid, Spain

Contractor: Transcity Joint Venture

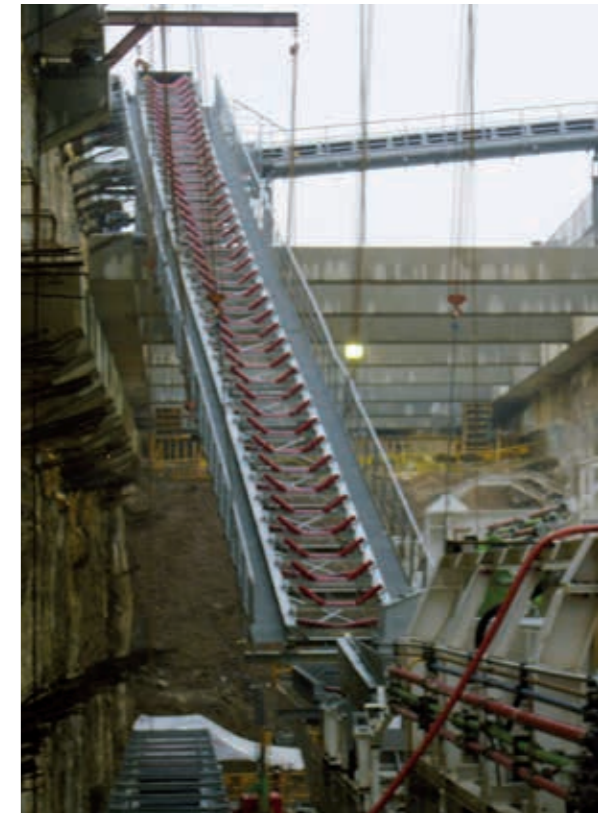


Tunnel Diameter:	10.40 m
Min. Radius:	> 270 m
Mineral:	EPB
TBM Supplier:	Herrenknecht
Conveyor Length:	7,100 m
Belt Width:	1,200 mm
Capacity:	500 t/h
Installed Power:	3 x 355 kW 3 x 90 kW
Belt Storage Capacity:	500 m / horizontal
Installation:	2009



■ S-444 High Speed Railway Tunnel, Trinidad – Barcelona, Spain

Contractor: U.T.E. AVE Trinidad



Tunnel Diameter:	12.08 m
Min. Radius:	> 800 m
Mineral:	Clay
TBM Supplier:	Herrenknecht
Conveyor Length:	3,050 m
Belt Width:	1,200 mm
Capacity:	1,700 t/h
Installed Power:	2 x 315 kW
Belt Storage Capacity:	500 m / horizontal
Installation:	2009



S-485 Railway Tunnel, Mostoles – Madrid, Spain

Contractor: Obrascon Huarte Lain, S.A.



Tunnel Diameter:	10.60 m
Min. Radius:	> 300 m
Mineral:	Clay
TBM Supplier:	Herrenknecht
Conveyor Length:	1,900 m
Belt Width:	1,000 mm
Capacity:	1,200 t/h
Installed Power:	4 x 132 kW
Belt Storage Capacity:	500 m / horizontal
Installation:	2009



S-511 High Speed Railway Tunnel, Pajares Lot V, Spain

Contractor: ACCIONA INFRA.-FCC CONSTR. UTE. (Sotiello UTE)



Tunnel Diameter:	10.10 m
Min. Radius:	> 1,200 m
Mineral:	Hard Rock
TBM Supplier:	Herrenknecht
Conveyor Length:	6,300 m
Belt Width:	1,000 mm
Capacity:	1,200 t/h
Installed Power:	3 x 355 kW
Belt Storage Capacity:	400 m / vertical
Installation:	2009

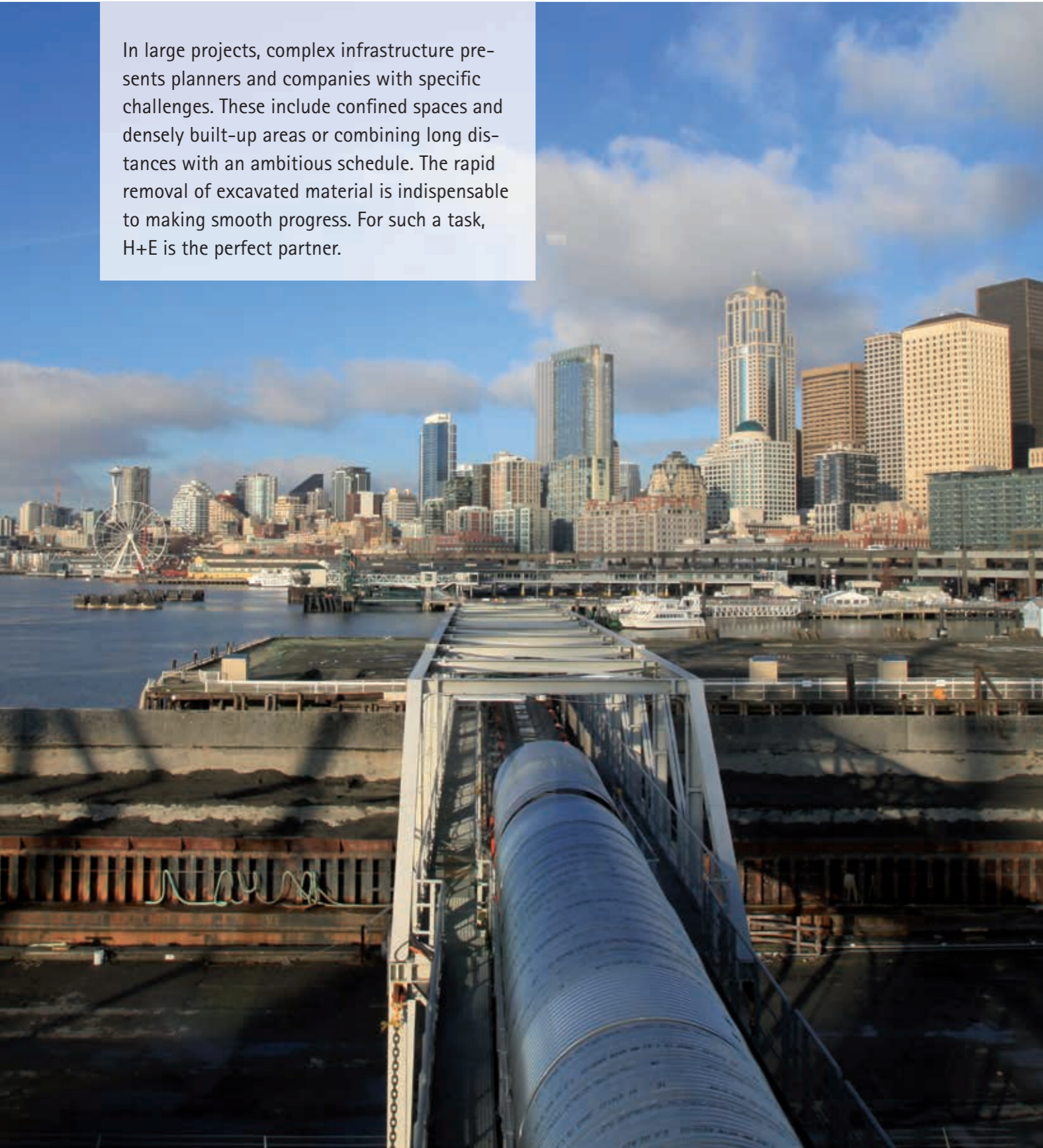


■ **Road Tunnelling** _ For transporting excavated material, H+E is synonymous with problem-free backup in tunnel construction.

■ **Road Tunnel North Ring Road (Tomei Expressway Northbound), Tokyo, Japan**

Contractor: Obayashi Corp.

In large projects, complex infrastructure presents planners and companies with specific challenges. These include confined spaces and densely built-up areas or combining long distances with an ambitious schedule. The rapid removal of excavated material is indispensable to making smooth progress. For such a task, H+E is the perfect partner.



Tunnel Belt

Tunnel Diameter:	14.30 m
Min. Radius:	> 640 m
Mineral:	EPB
TBM Supplier:	Mitsubishi / Herrenknecht
Conveyor Length:	9,100 m
Belt Width:	1,200 mm
Capacity:	1,660 t/h
Installed Power:	2 x 355 kW (Main drive) (4x) 1 x 355 kW (Booster top) 1 x 160 kW (Booster bottom) 1 x 160 kW (Booster TBM)
Belt Storage Capacity:	715 m / vertical
Installation:	2018

Vertical Conveyor

Mineral:	EPB
Conveyor Length:	67 m
Belt Width:	1,600 mm
Capacity:	1,860 t/h
Installed Power:	2 x 250 kW (Main drive)
Installation:	2018

S-974/S-1003 Road Tunnel Serravalle, Italy

Contractor: Salini Impregilo S.p.A.



Tunnel Diameter:	9.70 m
Min. Radius:	> 4,000 m
Mineral:	Coal
TBM Supplier:	Herrenknecht
Conveyor Length:	6,400 m
Belt Width:	800 mm
Capacity:	900 t/h
Installed Power:	4 x 200 kW (Main drive)
Belt Storage Capacity:	500 m / horizontal
Installation:	2016



S-643 Road Tunnel Savona, Italy

Contractor: Letimbro Scarl



Tunnel Diameter:	13.70 m
Min. Radius:	> 330 m
Mineral:	EPB / Rock
TBM Supplier:	Herrenknecht
Conveyor Length:	3,930 m
Belt Width:	1,000 mm
Capacity:	1,200 t/h
Installed Power:	1 x 315 kW (Main drive)
	1 x 315 kW (Booster top)
	1 x 90 kW (Booster TBM)
Belt Storage Capacity:	500 m / horizontal
Installation:	2015



SR-99 Road Tunnel, Alaskan Highway, Seattle, USA

Contractor: Seattle Tunnel Partners



Tunnel Belt	
Tunnel Diameter:	17.45 m
Min. Radius:	> 1,000 m
Mineral:	EPB
TBM Supplier:	Hitachi
Conveyor Length:	2,987 m
Belt Width:	1,600 mm
Capacity:	2,800 t/h
Installed Power:	3 x 362 kW (Main drive)
Belt Storage Capacity:	500 m / horizontal
Installation:	2013

S-764 Waterview Connection Tunnel, Auckland, New Zealand

Contractor: The Well-Connected Alliance for the Waterview Connection



Tunnel Diameter:	13.10 m
Min. Radius:	> 1,000 m
Mineral:	EPB
TBM Supplier:	Herrenknecht
Conveyor Length:	1 x 3,000 m 1 x 2,400 m
Belt Width:	1,200 mm
Capacity:	1,600 t/h
Installed Power:	5 x 355 kW (Main drive) 2 x 355 kW (Booster)
Belt Storage Capacity:	600 m / horizontal
Installation:	2013

S-574 Highway Tunnel Sparvo II, Italy

Contractor: TOTO Costruzioni Generali S.p.A.



Tunnel Diameter:	15.55 m
Min. Radius:	> 1,000 m
Mineral:	EPB
TBM Supplier:	Herrenknecht
Conveyor Length:	2,500 m
Belt Width:	1,200 mm
Capacity:	2,000 t/h
Installed Power:	2 x 355 kW
Belt Storage Capacity:	500 m / vertical
First Installation:	2012



S-648/S-647 Road Tunnel LEGACY WAY Transcity, Brisbane, Australia

Contractor: Transcity Joint Venture



Tunnel Diameter:	12.00 m
Min. Radius:	> 1,000 m
Mineral:	Rock
TBM Supplier:	Herrenknecht
Conveyor Length:	4,500 m
Belt Width:	1,000 mm / 1,400 mm
Capacity:	2,800 t/h
Installed Power:	3 x 355 kW
	5 x 110 kW
	2 x 160 kW
Belt Storage Capacity:	600 m / horizontal
Installation:	2012



S-497 Highway Tunnel Sparvo, Italy

Contractor: TOTO Costruzioni Generali S.p.A.



Tunnel Diameter:	7.10 m
Min. Radius:	1,000 m
Mineral:	EPB
TBM Supplier:	Herrenknecht
Conveyor Length:	2,500 m
Belt Width:	1,200 mm
Capacity:	2,000 t/h
Installed Power:	2 x 355 kW
Belt Storage Capacity:	400 m / vertical
First Installation:	2011



S-534 Road Tunnel No. 3, Sotschi, Russia

Contractor: OAO Bamtonnelstroy



Tunnel Diameter:	11.83 m
Min. Radius:	> 500 m
Mineral:	Lime Rock
TBM Supplier:	Herrenknecht
Conveyor Length:	4,320 m
Belt Width:	1,000 mm
Capacity:	1,300 t/h
Installed Power:	2 x 355 kW
	1 x 90 kW
Belt Storage Capacity:	400 m / vertical
Installation:	2010



S-512/S-514 Motorway Tunnel, Brisbane, Australia

Contractor: JV Thiess John Holland



Tunnel Belt	01	02
Tunnel Diameter:	12.50 m	12.50 m
Min. Radius:	> 1,000 m	> 1,000 m
Mineral:	Clay / Sand / Gravel	Clay / Sand / Gravel
TBM Supplier:	Herrenknecht	Herrenknecht
Conveyor Length:	2,500 m	2,700 m
Belt Width:	1,000 mm	1,000 mm
Capacity:	1,300 t/h	1,300 t/h
Installed Power:	2 x 355 kW	2 x 355 kW
Belt Storage Capacity:	500 m / horizontal	500 m / horizontal
Installation:	2010	2010



	Cross Conveyor 03	Overland Conveyor 04
Conveyor Length:	190 m	1,800 m
Belt Width:	1,400 mm	1,400 mm
Capacity:	2,700 t/h	2,700 t/h
Installed Power:	1 x 160 kW	2 x 355 kW
Installation:	2010	2010

	Tripper Car 05
Conveyor Length:	90 m
Belt Width:	1,400 mm
Capacity:	2,700 t/h
Installed Power:	2 x 160 kW
Installation:	2010



S-557 Road Tunnel, Dehli, India

Contractor: Larsen & Toubro Ltd.



Tunnel Diameter:	5.20 m
Mineral:	Clay
TBM Supplier:	Herrenknecht
Conveyor Length:	3,680 m
Belt Width:	800 mm
Capacity:	180 t/h
Installed Power:	2 x 90 kW
Belt Storage Capacity:	400 m / vertical
First Installation:	2010

S-452 Motorway Tunnel, Biel, Switzerland

Contractor: ARGE Umfahrung Biel Ostast (ATUBO)



Tunnel Diameter:	12.55 m
Min. Radius:	> 700 m
Mineral:	EPB / Hard Rock
TBM Supplier:	Herrenknecht
Conveyor Length:	4,342 m
Belt Width:	1,000 mm
Capacity:	1,750 t/h
Installed Power:	3 x 315 kW
Belt Storage Capacity:	500 m / horizontal
Installation:	2009

■ **Metro Tunnelling** _ Mobility bottlenecks in large cities mean their metro systems require expansion. Flexible conveyor systems from H+E transport excavated material even in the tightest of spaces.



The Paris metropolis megaproject began in 2016: The Grand Paris Express. A new rail network spanning around 200 km is to improve the infrastructure and provide driverless transport to bring ten million people to their destinations.

H+E is an integral part of the project, especially for the 15 T2C line. In addition to tunnel conveyors and overland conveyors, H+E sandwich conveyors were used for the first time and were successful.

H+E also met the challenge of a lack of space in the shaft which required delivered materials and the design of the installation to be precisely coordinated: just in time, just H+E.

■ **S-1078 Metro Grand Paris Line 15 T2C, France**

Contractor: GIE Alliance



Tunnel Belt / Construction Site 802

Tunnel Diameter:	8.70 m
Min. Radius:	> 597 m
Mineral:	EPB
TBM Supplier:	Herrenknecht
Conveyor Length:	1 x 4,800 m
Belt Width:	800 mm
Capacity:	800 t/h
Installed Power:	2 x 200 kW (Main drive) 1 x 200 kW (Booster top)
Belt Storage Capacity:	500 m / vertical
Installation:	2018

Sandwich Conveyor

Mineral:	EPB
Conveyor Length:	26 m
Belt Width:	1,400 mm
Capacity:	800 t/h
Installed Power:	2 x 75 kW (Main drive)
Installation:	2018

S-1079 Metro Grand Paris Line 15 T2C, France

Contractor: GIE Alliance



Tunnel Belt / Construction Site 813

Tunnel Diameter:	8.70 m
Min. Radius:	> 251 m
Mineral:	EPB
TBM Supplier:	Herrenknecht
Conveyor Length:	1 x 2,200 m
Belt Width:	800 mm
Capacity:	800 t/h
Installed Power:	2 x 200 kW (Main drive)
Belt Storage Capacity:	500 m / vertical
Installation:	2018

Sandwich Conveyor

Mineral:	EPB
Conveyor Length:	1 x 25 m
Belt Width:	1,600 mm
Capacity:	800 t/h
Installed Power:	2 x 75 kW (Main drive)
Installation:	2018

S-1137 - S-1140 Sydney Metro City & Southwest, Australia

Contractor: John Holland CPB Ghella JV



Tunnel Belt

Tunnel Diameter:	7.06 m
Min. Radius:	> 250 m
Mineral:	EPB
TBM Supplier:	Herrenknecht
Conveyor Length:	2 x 8,100 m
	2 x 6,140 m
Belt Width:	800 mm
Capacity:	800 t/h
Installed Power:	Marrickville: 1 x 160 kW (Main drive) 6 x 160 kW, 1 x 110 kW (Booster)
	Chatswood: 2 x 160 kW (Main drive) 5 x 160 kW (Booster)
Belt Storage Capacity:	(2 x) 600 m / horizontal (2 x) 600 m / vertical
Installation:	2018

Vertical Conveyor

Mineral:	EPB
Conveyor Length:	1 x 73 m
Belt Width:	1,600 mm
Capacity:	1,600 t/h
Installed Power:	2 x 110 kW (Main drive)
Installation:	2018



S-1081 - S-1084 Istanbul Gayretteppe, New Airport Metro Line, Turkey

Contractor: KKC Marmaray İnşaat Adi Ortaklığı



Tunnel Diameter:	6.45 m
Min. Radius:	> 750 m
Mineral:	EPB
TBM Supplier:	Herrenknecht & NHI
Conveyor Length:	2 x 5,688 m
	2 x 5,361 m
	2 x 6,382 m
	2 x 6,754 m
	2 x 5,890 m
Belt Width:	800 mm
Capacity:	450 t/h
Installed Power:	(2 x) 2 x 200 kW (Main drive)
	(3 x) 3 x 200 kW (Main drive)
Belt Storage Capacity:	(10 x) 500 m / horizontal
Installation:	2017

S-1028 - S-1031 Metro Tunnel Istanbul, Turkey

Contractor: Aga Enerji Insaat AS



Tunnel Diameter:	6.57 m
Min. Radius:	> 300 m
Mineral:	EPB
TBM Supplier:	Herrenknecht
Conveyor Length:	2 x 5,367 m
	2 x 4,134 m
Belt Width:	800 mm
Capacity:	450 t/h
Installed Power:	(4 x) 1 x 200 kW (Main drive)
	(4 x) 2 x 200 kW (Booster)
	(4 x) 2 x 75 kW (Booster)
Belt Storage Capacity:	(4 x) 500 m / horizontal
Installation:	2017



S-956 Metro Tunnel Moscow, Russia

Contractor: Herrenknecht AG



Tunnel Diameter:	10.87 m
Min. Radius:	> 600 m
Mineral:	EPB
TBM Supplier:	Herrenknecht
Conveyor Length:	3,000 m
Belt Width:	1,000 mm
Capacity:	1,000 t/h
Installed Power:	2 x 200 kW (Main drive) 1 x 200 kW, 1 x 90 kW (Booster)
Capacity:	400 m / vertical
Installation:	2017



S-1001 / S-1002 Metro Tunnel Bakirkoy Kirazh, Istanbul, Turkey

Contractor: Aga Energy Transport Mining Construction Industry & Trade Co.



Tunnel Diameter:	5.70 m
Min. Radius:	> 300 m
Mineral:	EPB
TBM Supplier:	Herrenknecht
Conveyor Length:	2 x 1,500 m
Belt Width:	800 mm
Capacity:	500 t/h
Installed Power:	(2 x) 1 x 200 kW (Main drive) (2 x) 2 x 200 kW, (2 x) 1 x 75 kW (Booster)
Belt Storage Capacity:	(2 x) 500 m / horizontal
Installation:	2017



S-1018/S-1019/S-1022 Metro Tunnel Quito, Ecuador

Contractor: Consorcio Línea 1, Acciona



Tunnel Diameter:	9.50 m
Min. Radius:	> 300 m
Mineral:	EPB
TBM Supplier:	Herrenknecht
Conveyor Length:	1 x 10,141 m 1 x 4,116 m 1 x 4,238 m
Belt Width:	1,000 m
Capacity:	750 t/h
Installed Power:	(3 x) 200 kW (Main drive) 9 x 200 kW (Booster) 6 x 90 kW (Booster)
Belt Storage Capacity:	(3 x) 500 m / horizontal
Installation:	2016



S-968 Metro Tunnel Copenhagen Nordhavn, Denmark

Contractor: HOCHTIEF Infrastructure GmbH



Tunnel Diameter:	5.79 m
Min. Radius:	> 260 m
Mineral:	EPB
TBM Supplier:	Herrenknecht
Conveyor Length:	1 x 1,850 m
Belt Width:	800 mm
Capacity:	350 t/h
Installed Power:	1 x 200 kW (Main drive)
Belt Storage Capacity:	400 m / vertical
Installation:	2016

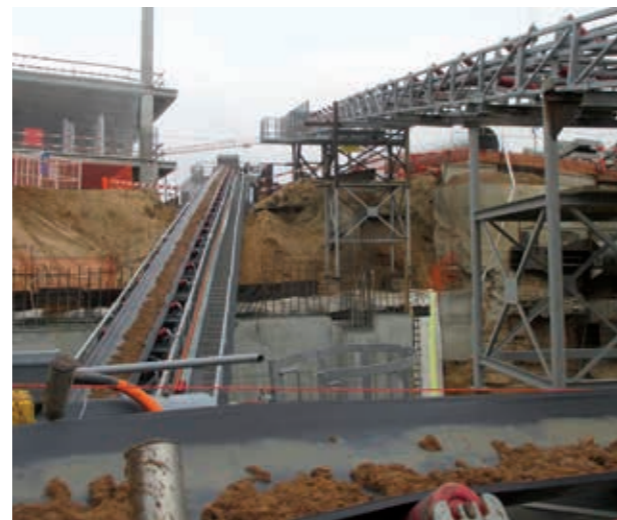


S-831/S-832 Metro Tunnel, Moscow, Russia

Contractor: Herrenknecht AG



Tunnel Diameter:	6.25 m
Min. Radius:	> 400 m
Mineral:	EPB
TBM Supplier:	Herrenknecht
Conveyor Length:	2 x 2,000 m
Belt Width:	650 mm
Capacity:	350 t/h
Installed Power:	(2 x) 2 x 160 kW (Main drive)
Belt Storage Capacity:	400 m / vertical
Installation:	2016



S-1014 Project Metro Tunnel Sofia III, Bulgaria

Contractor: Sofia Metro Extension



Tunnel Diameter:	9.36 m
Min. Radius:	> 250 m
Mineral:	EPB
TBM Supplier:	Herrenknecht
Conveyor Length:	3,600 m
Belt Width:	800 mm
Capacity:	750 t/h
Installed Power:	1 x 200 kW (Main drive) 2 x 200 kW (Booster top) 1 x 75 kW (Booster return)
Belt Storage Capacity:	500 m / horizontal
Installation:	2016



S-939 Metro Tunnel Guadalajara, Mexico

Contractor: Sacyr Construccion Mexico S.A.



Tunnel Belt

Tunnel Diameter:	11.52 m
Min. Radius:	> 250 m
Mineral:	EPB
TBM Supplier:	Herrenknecht
Conveyor Length:	4,120 m
Belt Width:	1,000 mm
Capacity:	1,100 t/h
Installed Power:	2 x 132 kW (Main drive) 4 x 132 kW, 1 x 90 kW (Booster)
Belt Storage Capacity:	500 m / horizontal
Installation:	2016

Stacker

Mineral:	EPB
Conveyor Length:	40 m
Belt Width:	1,000 mm
Capacity:	1,100 t/h
Installed Power:	2 x 37 kW (Main drive)
Installation:	2016

S-984 Metro Tunnel Nizhny Novgorod, Russia

Contractor: Herrenknecht AG



Tunnel Diameter:	6.18 m
Min. Radius:	> 350 m
Mineral:	EPB
TBM Supplier:	Herrenknecht
Conveyor Length:	2,200 m
Belt Width:	650 mm
Capacity:	450 t/h
Installed Power:	2 x 160 kW (Main drive)
Belt Storage Capacity:	400 m / vertical
Installation:	2016



S-904 – S-911 Metro Tunnel, Riyadh, Saudi Arabia

Contractor: Dogus Construction



Tunnel Diameter:	9.00 m
Min. Radius:	> 300 m
Mineral:	EPB
TBM Supplier:	Herrenknecht
Conveyor Length:	1 x 5,090 m
	1 x 4,148 m
	1 x 3,080 m
	1 x 2,859 m
Belt Width:	1,000 mm
Capacity:	1,000 t/h
Installed Power:	(4 x) 1 x 200 kW (Main drive)
	(4 x) 1 x 200 kW (Booster)
Belt Storage Capacity:	(2 x) 400 m / vertical
	(2 x) 500 m / horizontal
Installation:	2015



S-844 – S-849 Metro Tunnel Doha, Green Line, Qatar

Contractor: Porr Bau GmbH



Tunnel Diameter:	7.05 m
Min. Radius:	> 400 m
Mineral:	EPB
TBM Supplier:	Herrenknecht
Conveyor Length:	2 x 7,464 m 2 x 4,233 m 2 x 3,890 m
Belt Width:	800 mm
Capacity:	540 t/h
Installed Power:	(2 x) 1 x 200 kW, (1 x) 2 x 200 kW (Main drive) 3 x 200 kW, 2 x 200 kW, 1 x 200 kW (Booster) (1 x) 2 x 75 kW, (2 x) 1 x 75 kW (Booster)
Belt Storage Capacity:	(6 x) 500 m / horizontal
Installation:	2014



S-920 – S-925 Metro Tunnel Doha, Gold Line, Qatar

Contractor: JV Yapi Merkezi, Aktor, STFA, Larsen



Tunnel Diameter:	7.11 m
Min. Radius:	> 250 m
Mineral:	EPB
TBM Supplier:	Herrenknecht
Conveyor Length:	2 x 4,765 m 2 x 4,306 m 2 x 4,241 m
Belt Width:	800 mm
Capacity:	540 t/h
Installed Power:	(6 x) 1 x 200 kW (Main drive) (6 x) 2 x 200 kW (Booster top) (6 x) 2 x 75 kW (Booster bottom)
Belt Storage Capacity:	(6 x) 500 m / horizontal
Installation:	2014



S-782 Metro Tunnel St. Petersburg, Russia

Contractor: Herrenknecht AG



Tunnel Diameter:	10.60 m
Min. Radius:	> 600 m
Mineral:	EPB
TBM Supplier:	Herrenknecht
Conveyor Length:	3,800 m
Belt Width:	1,000 mm
Capacity:	1,000 t/h
Installed Power:	2 x 160 kW (Main drive) 3 x 160 kW (Booster)
Belt Storage Capacity:	400 m / vertical
Installation:	2014



S-791 Metro Tunnel, Moscow, Russia

Contractor: Herrenknecht AG



Tunnel Diameter:	5.70 m
Mineral:	EPB
TBM Supplier:	Herrenknecht
Conveyor Length:	1,200 m
Belt Width:	650 mm
Capacity:	350 t/h
Installed Power:	1 x 160 kW (Main drive)
Belt Storage Capacity:	400 m / vertical
Installation:	2014



S-895/S-896 Metro Tunnel, Riyadh L5, Saudi Arabia

Contractor: FCC Servivios Ciudadanos



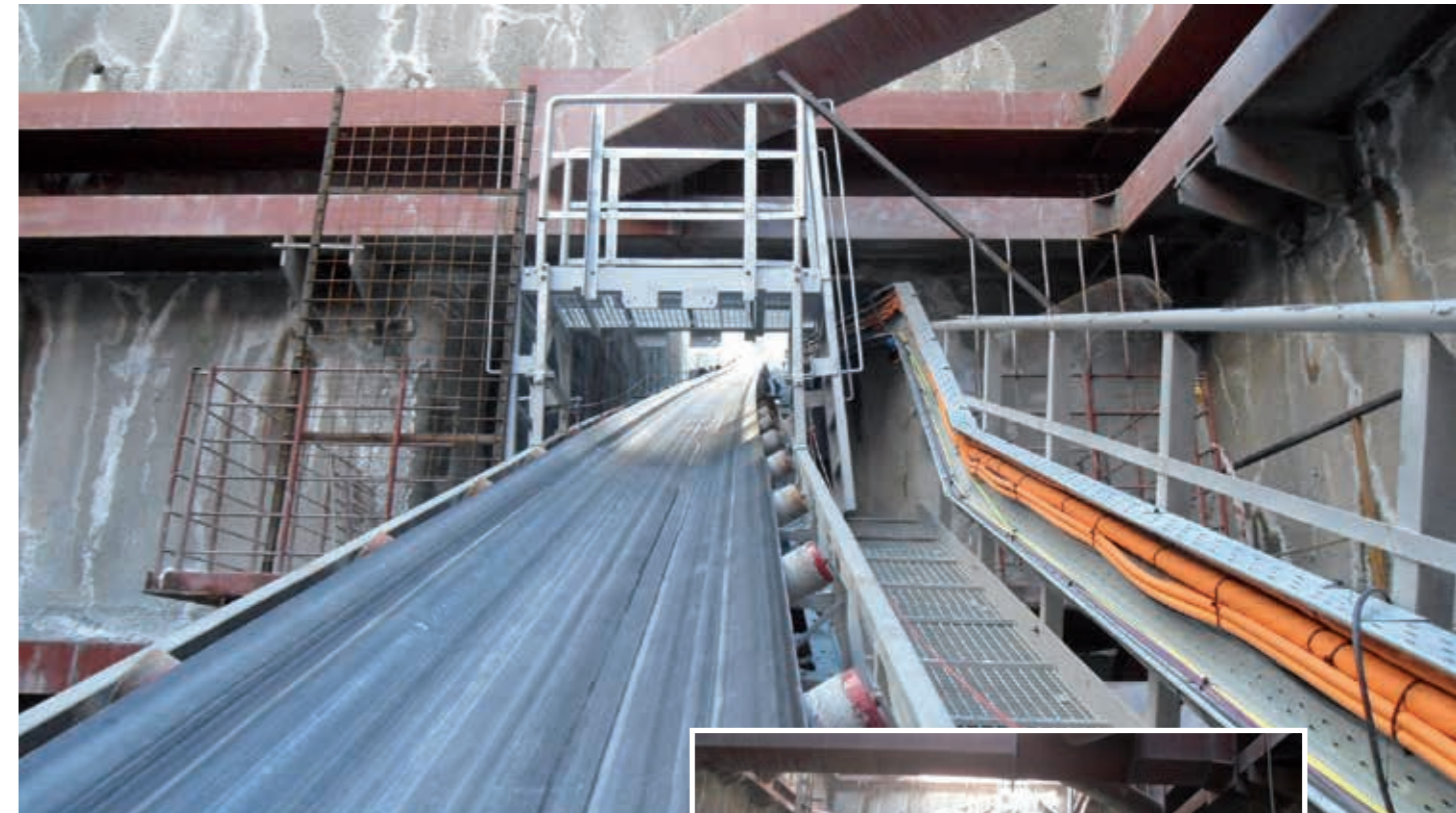
Tunnel Belt	
Tunnel Diameter:	9.77 m
Min. Radius:	> 252 m
Mineral:	Limestone
TBM Supplier:	Herrenknecht
Conveyor Length:	1 x 5,050 m 1 x 6,750 m
Belt Width:	1,000 mm
Capacity:	1,200 t/h
Installed Power:	(2 x) 1 x 200 kW (Main drive) (1 x) 4 x 200 kW, (1 x) 5 x 200 kW (Booster) (2 x) 2 x 90 kW (Booster)
Belt Storage Capacity:	1 x 500 m / horizontal 1 x 500 m / vertical
Installation:	2014

Vertical Conveyor	
Mineral:	Limestone
Conveyor Length:	47 m
Belt Width:	1,600 mm
Capacity:	1.200 t/h
Installed Power:	2 x 90 kW (Main drive)
Installation:	2014



Metro Tunnel Athens Line 3, Greece

Contractor: Ghella S.p.A.



Tunnel Diameter:	8.90 m
Min. Radius:	> 350 m
Mineral:	EPB / Schist
TBM Supplier:	Lovat Caterpillar
Conveyor Length:	7,165 m
Belt Width:	1,000 mm
Capacity:	900 t/h
Installed Power:	2 x 315 kW (Main drive) 4 x 200 kW (Booster) 3 x 90 kW (Booster)
Belt Storage Capacity:	500 m / horizontal
Installation:	2014



S-743/S-744 Metro Tunnel, Bukarest Line 5, Romania

Contractor: For Asocierea Astaldi SPA – FCC Construcción S.A.



Tunnel Diameter:	5.70 m
Min. Radius:	> 180 m
Mineral:	EPB
TBM Supplier:	Herrenknecht
Conveyor Length:	2 x 4,100 m
Belt Width:	800 mm
Capacity:	500 t/h
Installed Power:	(2 x) 1 x 160 kW (Main drive) (2 x) 2 x 160 kW (Booster top) (2 x) 1 x 90 kW (Booster bottom)
Belt Storage Capacity:	(2 x) 500 m / horizontal
Installation:	2013



S-769 Metro Tunnel Line 4, Rio de Janeiro, Brazil

Contractor: Odebrecht



Tunnel Belt	
Tunnel Diameter:	11.46 m
Min. Radius:	> 226 m
Mineral:	Coal
TBM Supplier:	Herrenknecht
Conveyor Length:	5,891 m
Belt Width:	1,000 mm
Capacity:	1,320 t/h
Installed Power:	1 x 184 kW (Main drive) 4 x 184 kW (Booster) 2 x 103 kW (Booster)
Belt Storage Capacity:	500 m / horizontal
Installation:	2013

Overland Conveyor	
Mineral:	Coal
Conveyor Length:	1 x 46 m
Belt Width:	1,000 mm
Capacity:	1,320 t/h
Installed Power:	1 x 63 kW (Main drive)
Installation:	2013

Metro Tunnel Toronto, Canada

Contractor: FCC / OHL



Tunnel Belt

Tunnel Diameter:	9.92 m
Mineral:	EPB
TBM Supplier:	Lovat
Conveyor Length:	2 x 1,150 m
Belt Width:	800 mm
Capacity:	600 t/h
Installed Power:	(2 x) 2 x 103 kW (Main drive)
Belt Storage Capacity:	(2 x) 400 m / vertical
Installation:	2013

Vertical Conveyor

Mineral:	EPB
Conveyor Length:	2 x 25 m
Belt Width:	1,200 mm
Capacity:	600 t/h
Installed Power:	(2 x) 1 x 103 kW (Main drive)
Installation:	2013



S-680/S-681 Metro Tunnel Panama L1, Panama

Contractor: Construtora Norberto Odebrecht + FCC

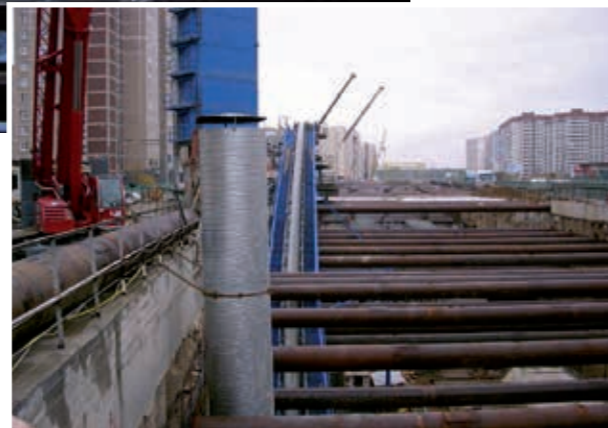


Tunnel Diameter:	8.70 m
Min. Radius:	> 300 m
Mineral:	Clay / Sand
TBM Supplier:	Herrenknecht
Conveyor Length:	4,100 m + 2,970 m
Belt Width:	1,000 mm
Capacity:	1,200 t/h
Installed Power:	4 x 184 kW
	1 x 104 kW
Belt Storage Capacity:	2 x 600 m / horizontal
Installation:	2012



S-736 Metro Tunnel Moscow Bamtonnelstroy, Russia

Contractor: OAO "USK Most"



Tunnel Diameter:	5.40 m
Min. Radius:	> 400 m
Mineral:	EPB
TBM Supplier:	Herrenknecht
Conveyor Length:	2 x 2,000 m
Belt Width:	650 / 1,000 / 1,200 mm
Capacity:	350 t/h
Installed Power:	2 x 110 kW
Belt Storage Capacity:	2 x 400 m / vertical
Installation:	2012

S-694/S-695 Metro Tunnel, Milano Linea 5 - San Siro, Italy

Contractor: ASTALDI S.p.A



Tunnel Diameter:	6.50 m
Min. Radius:	> 200 m
Mineral:	EPB
TBM Supplier:	Herrenknecht
Conveyor Length:	2 x 3,435 m
Belt Width:	800 mm / 1,000 mm
Capacity:	500 t/h
Installed Power:	3 x 110 kW
	2 x 90 kW
Belt Storage Capacity:	2 x 500 m / horizontal
Installation:	2012

S-747 Metro Tunnel Moscow, Russia

Contractor: Transingstroy



Tunnel Diameter:	5.40 m
Min. Radius:	> 400 m
Mineral:	EPB
TBM Supplier:	Herrenknecht
Conveyor Length:	3,000 m
BOelt Width:	650 mm
Capacity:	350 t/h
Installed Power:	2 x 160 kW
Belt Storage Capacity:	400 m / vertical
Installation:	2012

S-644/S-645/S-646 Metro Tunnel Warsaw, Poland

Contractor: AGP Metro Polska s.c. Astaldi – Güllermak – PBDiM



Tunnel Diameter:	5.40 m
Min. Radius:	> 300 m
Mineral:	Clay / Sand / Gravel
TBM Supplier:	Herrenknecht
Conveyor Length:	2 x 3,500 m + 2,100 m
Belt Width:	800 mm
Capacity:	350 t/h
Installed Power:	2 x 90 kW
	2 x 75 kW
Belt Storage Capacity:	2 x 400 / horizontal
	1 x 500 m / vertical
Installation:	2011

■ S-554 TB Metro Tunnel Rome, Italy

Contractor: Salini Costruttori S.p.A.

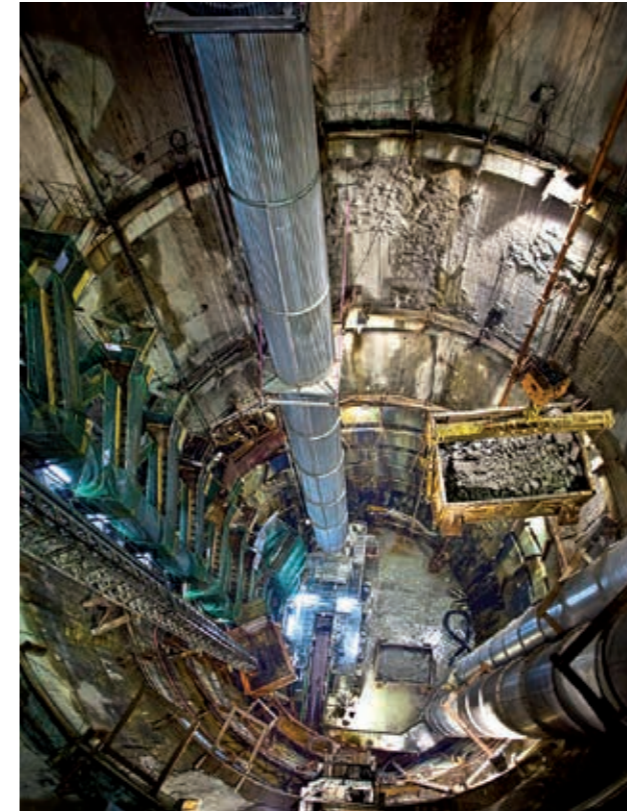


Tunnel Diameter:	8.65 m
Min. Radius:	> 300 m
Mineral:	EPB
TBM Supplier:	Herrenknecht
Conveyor Length:	900 m
Belt Width:	800 mm
Capacity:	500 t/h
Installed Power:	2 x 110 kW
Belt Storage Capacity:	460 m / horizontal
Installation:	2011



■ Metro Tunnel MTR West Island Line, Hong Kong, China

Contractor: Gammon Nishimatsu WILL Joint Venture



Tunnel Diameter:	15.88 m
Mineral:	EPB
Conveyor Length:	1,555 m
Belt Width:	800 mm / 1,200 mm
Capacity:	800 t/h / 1,500 t/h
Installed Power:	5 x 55 kW / 1 x 37 kW 2 x 90 kW / 2 x 75 kW
Installation:	2011



S-525 Metro Tunnel Sofia, Bulgaria

Contractor: DOGUS INSAAT VE TICARET A.S



Tunnel Diameter:	9.42 m
Min. Radius:	> 250 m
Mineral:	Clay
TBM Supplier:	Herrenknecht
Conveyor Length:	3,800 m
Belt Width:	1,000 mm
Capacity:	1,000 t/h
Installed Power:	3 x 160 kW 1 x 90 kW
Belt Storage Capacity:	400 m / horizontal
Installation:	2010



S-609/S-610 Metro Tunnel Prague, Czech Republic

Contractor: Metrostav



Tunnel Diameter:	5.80 m
Min. Radius:	> 600 m
Mineral:	EPB
TBM Supplier:	Herrenknecht
Conveyor Length:	2 x 2,650 m + 300 m
Belt Width:	650 mm
Capacity:	2 x 400 t/h / 1 x 800 t/h
Installed Power:	2 x 160 kW per tunnel/ 1 x 160 kW (adit)
Belt Storage Capacity:	2 x 400 m / vertical
First Installation:	2010

S-535 Metro Tunnel Atocha Chamartin-Madrid, Spain

Contractor: AVE Tunel Serrano U.T.E.



Tunnel Diameter:	10.40 m
Min. Radius:	> 270 m
Mineral:	Clay / Sand / Gravel
TBM Supplier:	Herrenknecht
Conveyor Length:	7,100 m
Belt Width:	1,200 mm
Capacity:	1,400 t/h
Installed Power:	5 x 355 kW 1 x 90 kW
Belt Storage Capacity:	500 m / horizontal
Installation:	2010



S-510 Metro Tunnel Sabadell, Barcelona, Spain

Contractor: Acciona



Tunnel Diameter:	6.50 m
Mineral:	EPB
TBM Supplier:	Herrenknecht
Conveyor Length:	3,520 m + 200 m
Belt Width:	1,000 mm
Capacity:	600 t/h
Installed Power:	5 x 132 kW
Belt Storage Capacity:	500 m / horizontal
Installation:	2010

S-479/S-480 Metro Tunnel Rome Linie C, Italy

Contractor: Metro C S.c.p.A.



Tunnel Diameter:	6.40 m
Min. Radius:	> 280 m
Mineral:	Volcanic Rock
TBM Supplier:	Herrenknecht
Conveyor Length:	2,800 m
Belt Width:	800
Capacity:	450 t/h
Installed Power:	3 x 110 kW
Belt Storage Capacity:	500 m / horizontal
Installation:	2009



Metro Tunnel Linea 2, Madrid, Spain

Contractor: FCC Construcción S.A.



Tunnel Diameter:	8.43 m
Min. Radius:	> 300 m
Mineral:	Clay / Sand / Gravel
TBM Supplier:	NFM
Conveyor Length:	4,660 m
Belt Width:	1,000 mm
Capacity:	1,200 t/h
Installed Power:	5 x 160 kW
	1 x 90 kW
Belt Storage Capacity:	500 m / horizontal
Installation:	2009



S-505 Metro Tunnel, Kartal - Istanbul, Turkey

Contractor: Avrasya Metro Grubu Ortak Girişimi (Astaldi Makyol Gülermak)



Tunnel Diameter:	8.50 m
Min. Radius:	> 350 m
Mineral:	Hard Rock / Clay
TBM Supplier:	Herrenknecht
Conveyor Length:	7,590 m
Belt Width:	800 mm
Capacity:	450 t/h
Installed Power:	4 x 160 kW 1 x 90 kW
Belt Storage Capacity:	500 m / horizontal
Installation:	2009



S-442 Metro Tunnel Linia L9, Barcelona, Spain

Contractor: U.T.E. Gorg



Tunnel Diameter:	12.08 m
Min. Radius:	> 300 m
Mineral:	Clay
TBM Supplier:	Herrenknecht
Conveyor Length:	3,535 m
Belt Width:	1,200 mm
Capacity:	1,540 t/h
Installed Power:	4 x 132 kW
Belt Storage Capacity:	500 m / horizontal
Installation:	2009

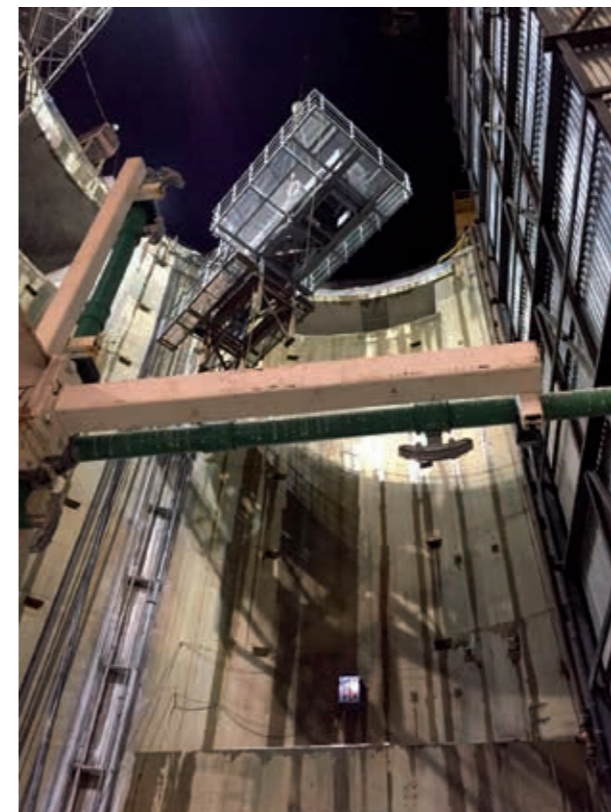


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■ **S-1131 Washington North East Boundary Tunnel, USA**

Contractor: The Lane Construction Corporation



Tunnel Belt

Tunnel Diameter:	7.01 m
Min. Radius:	> 274 m
Mineral:	EPB
TBM Supplier:	Herrenknecht
Conveyor Length:	8,109 m
Belt Width:	800 mm
Capacity:	700 t/h
Installed Power:	1 x 160 kW (Main drive) 4 x 160 kW (Booster top) 3 x 90 kW (Booster bottom)
Belt Storage Capacity:	400 m / vertical
Installation:	2019

Cross Conveyor

Mineral:	EPB
Conveyor Length:	1 x 5 m
Belt Width:	1,000 mm
Capacity:	700 t/h
Installed Power:	1 x 30 kW (Main drive)
Installation:	2019

The need for underground supply and disposal systems increases with populations. H+E creates new ways for efficient infrastructure for both industrial nations as well as emerging and developing countries. True to its principle of "Clever Conveying", H+E always finds efficient and convincing solutions.

S-1148 KSA-Arafat Taif Water Transmission System, Saudi Arabia

Contractor: Mapa Insaat AS.



Tunnel Diameter:	8.40 m
Min. Radius:	> 500 m
Mineral:	EPB
TBM Supplier:	Herrenknecht
Conveyor Length:	12,430 m
Belt Width:	1,000 mm
Capacity:	750 t/h
Installed Power:	1 x 200 kW (Main drive) 1 x 200 kW (Top Booster) 2 x 200 kW (Bottom Booster)
Belt Storage Capacity:	500 m / horizontal
Installation:	2018

S-684 Cleveland Dugway Storage Tunnel, USA

Contractor: S.A. Healy Company



Tunnel Diameter:	8.20 m
Min. Radius:	> 426 m
Mineral:	EPB
TBM Supplier:	Herrenknecht
Conveyor Length:	4,482 m
Belt Width:	1,000 mm
Capacity:	1,200 t/h
Installed Power:	1 x 160 kW (Main drive) 3 x 160 kW (Booster) 2 x 90 kW (Booster)
Belt Storage Capacity:	600 m / horizontal
Installation:	2017



■ Hydroelectric Power Tunnel, Los Condores, Chile

Contractor: Ferrovial



Tunnel Diameter:	3.70 m
Min. Radius:	> 350 m
Mineral:	EPB
TBM Supplier:	Robbins
Conveyor Length:	7,800 m
Belt Width:	650 mm
Capacity:	200 t/h
Installed Power:	1 x 160 kW (Main drive) 2 x 160 kW (Booster) 1 x 90 kW (Booster TBM)
Belt Storage Capacity:	500 m / horizontal
Installation:	2016



■ S-942 Wastewater Tunnel, Emisor Oriente, Mexico

Contractor: ICA Ingenieros Civiles Asociados S.A. de C.V.



Tunnel Belt	
Tunnel Diameter:	8.93 m
Min. Radius:	> 1,200 m
Mineral:	EPB
TBM Supplier:	Herrenknecht
Conveyor Length:	4,100 m
Belt Width:	800 mm
Capacity:	900 t/h
Installed Power:	2 x 315 kW (Main drive)
Belt Storage Capacity:	400 m / vertical
Installation:	2016

Vertical Conveyor	
Mineral:	EPB
Conveyor Length:	117 m
Belt Width:	1,400 mm
Capacity:	900 t/h
Installed Power:	2 x 250 kW (Main drive)
Installation:	2016

S-843 Sleemanabad Irrigation Tunnel, India

Contractor: Coastal Projects Ltd.



Tunnel Diameter:	9.80 m
Min. Radius:	> 1,000 m
Mineral:	EPB
TBM Supplier:	Herrenknecht
Conveyor Length:	6,250 m
Belt Width:	1,000 mm
Capacity:	850 t/h
Installed Power:	3 x 355 kW (Main drive) 1 x 110 kW (Booster)
Belt Storage Capacity:	500 m / horizontal
Installation:	2016



S-951 Water Tunnel, Beni Haroun, Algeria

Contractor: Mapa Insaat ve Ticaret A.S.



Tunnel Diameter:	6.15 m
Min. Radius:	> 600 m
Mineral:	Sand / Clay
TBM Supplier:	Herrenknecht
Conveyor Length:	3,668 m
Belt Width:	650 mm
Capacity:	400 t/h
Installed Power:	1 x 90 kW (Main drive) 2 x 90 kW (Booster top)
Belt Storage Capacity:	500 m / horizontal
Installation:	2015



S-916 Water Channel, Bouskoura, Morocco

Contractor: Makyol Insaat



Tunnel Diameter:	6.38 m
Min. Radius:	> 350 m
Mineral:	Psammite / Quartzite / Marly Limestone
TBM Supplier:	Herrenknecht
Conveyor Length:	5,300 m
Belt Width:	650 mm
Capacity:	450 t/h
Installed Power:	1 x 160 kW (Main drive) 2 x 160 kW, 1 x 75 kW (Booster)
Belt Storage Capacity:	500 m / horizontal
Installation:	2015

S-852 Anacostia River Tunnel, USA

Contractor: Impregilo S.p.A.



Tunnel Diameter:	7.91 m
Min. Radius:	> 274 m
Mineral:	EPB
TBM Supplier:	Herrenknecht
Conveyor Length:	3,750 m
Belt Width:	800 mm
Capacity:	600 t/h
Installed Power:	1 x 160 kW (Main drive) 2 x 160 kW (Booster top) 1 x 90 kW (Booster bottom)
Belt Storage Capacity:	400 m / vertical
Installation:	2015

S-794 Silvan Dam, Turkey

Contractor: Yertas Insaat Co.



Tunnel Diameter:	7.95 m
Mineral:	EPB
TBM Supplier:	Herrenknecht
Conveyor Length:	10,210 m
Belt Width:	1,000 mm
Capacity:	820 t/h
Installed Power:	2 x 355 kW (Main drive) 1 x 355 kW (Booster) 2 x 90 kW (Booster)
Belt Storage Capacity:	500 m / horizontal
Installation:	2014



Tunnel Torito, Costa Rica, Spain

Contractor: Obras Subterranas



Tunnel Diameter:	6.00 m
Min. Radius:	> 250 m
Mineral:	EPB
TBM Supplier:	Lovat
Conveyor Length:	3,575 m
Belt Width:	800 mm
Capacity:	650 t/h
Installed Power:	2 x 184 kW (Main drive) 1 x 184 kW (Booster top)
Belt Storage Capacity:	500 m / horizontal
Installation:	2013



S-684 Waste Water Cleveland Euclid Creek, USA

Contractor: McNally/Kiewit ECT Joint Venture



Tunnel Diameter:	11.30 m
Min. Radius:	> 457 m
Mineral:	EPB / Hard Rock
TBM Supplier:	Herrenknecht
Conveyor Length:	5,410 m
Belt Width:	1,000 mm / 1,600 mm
Capacity:	1,200 t/h
Installed Power:	4 x 160 kW 2 x 90 kW
Belt Storage Capacity:	2 x 300 m / horizontal
Installation:	2012



S-696/S-697 Hydropower Neelum-Jhelum, Pakistan

Contractor: CGGC-CMEC NJ Project

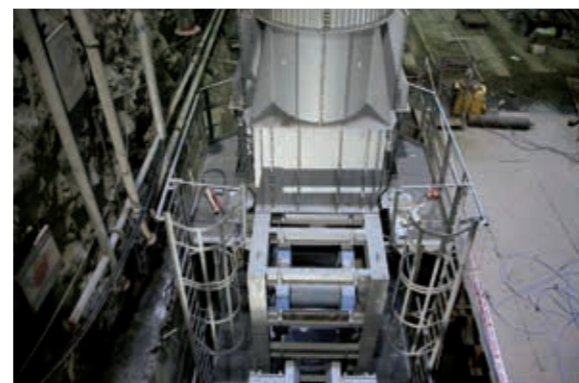


Tunnel Diameter:	8.50 m
Mineral:	Hard Rock
TBM Supplier:	Herrenknecht
Conveyor Length:	2 x 11,230 m
Belt Width:	800 mm / 1,000 mm
Capacity:	1,600 t/h
Installed Power:	6 x 315 kW 2 x 200 kW 4 x 75 kW
Belt Storage Capacity:	2 x 500 m / horizontal
Installation:	2012



S-625 Water Supply, Mumbai, India

Contractor: SOMA Enterprise Limited



Tunnel Diameter:	6.25 m
Mineral:	Hard Rock
TBM Supplier:	Herrenknecht
Conveyor Length:	6,800 m
Belt Width:	650 mm / 1,200 mm
Capacity:	550 t/h
Installed Power:	3 x 160 kW 1 x 75 kW
Belt Storage Capacity:	500 m / horizontal
Installation:	2012

S-690 / S-691 / S-692 Water Transmission, Gerede Ankara, Turkey

Contractor: Kolin Insaat Turizm Sanayi ve Ticaret A.S.



Tunnel Diameter:	4.50 m
Min. Radius:	> 300 m
Mineral:	EPB
TBM Supplier:	Herrenknecht
Conveyor Length:	9,543 / 10,966 / 10,977 m
Belt Width:	650 mm
Capacity:	400 t/h
Installed Power:	3 x 160 kW 1 x 90 kW 6 x 315 kW
Belt Storage Capacity:	3 x 500 m / horizontal
Installation:	2010

S-502 Water Tunnel, Lake Mead – Las Vegas, USA

Contractor: JV VTC (Healy/Impregilo)



Tunnel Diameter:	6.80 m
Min. Radius:	> 457 m
Mineral:	Hard Rock
TBM Supplier:	Herrenknecht
Conveyor Length:	4,815 m
Belt Width:	800 mm
Capacity:	700 t/h
Installed Power:	3 x 160 kW 1 x 90 kW
Belt Storage Capacity:	500 m / horizontal
Installation:	2010



S-519 Wastewater Tunnel, Emisor Oriente – Mexico City, Mexico

Contractor: ICA Ingenieros Civiles Asociados S.A.



Tunnel Diameter:	8.60 m
Min. Radius:	> 1,200 m
Mineral:	Clay / Sand / Gravel
TBM Supplier:	Herrenknecht
Conveyor Length:	5,300 m
Belt Width:	800 mm
Capacity:	900 t/h
Installed Power:	2 x 315 kW
Belt Storage Capacity:	500 m / horizontal
Installation:	2010



- Mining + Industrial_H+E systems convey any type of construction and raw materials – coal, copper ore, potash salt or cement – underground and above ground.



The CIS states increasingly require modernization and development of mines. Conveyor belt systems from H+E have proven to be the perfect solution for such complex challenges. It is not unusual for the systems to operate in extreme temperatures of up to +40 °C in summer or minus temperatures of 40 °C in winter. The quality of the systems to be implemented must be correspondingly high: not just made in Germany, but also made by H+E Logistik.

■ Mining Taldinskaja-Zapadnaja 2, Russia

Contractor: OAO Suek



Stacker

Mineral:	Coal
Conveyor Length:	30 m
Belt Width:	1,600 mm
Capacity:	3,500 t/h
Installed Power:	2 x 75 kW
	2 x 7,5 kW
	2 x 3 kW
Installation:	2015

Transfer Conveyor

Mineral:	Coal
Conveyor Length:	160 m
Belt Width:	1,400 mm
Capacity:	2,000 t/h
Installed Power:	2 x 132 kW (Main drive)
Installation:	2015



■ Mining Coalpac Mt Piper, Lithgow, Australia

Contractor: Coalpac



Min. Radius:	> 400 m
Mineral:	Coal
Conveyor Length:	3,000 m
Belt Width:	1,400 mm
Capacity:	2,000 t/h
Installed Power:	4 x 315 kW
Installation:	2014



■ Mining Pavlovskij, Vladivostok, Russia

Contractor: OAO "SUEK"



Mineral:	Coal
Conveyor Length:	1,665 m
Belt Width:	1,200 mm
Capacity:	800 t/h
Installed Power:	3 x 355 kW
Installation:	2013



■ Mining Chegdomyn, Russia
 Contractor: OAO Urgalugol



Min. Radius:	> 1,000 m
Mineral:	Rock / Coal
Conveyor Length:	(17 x) 12 m – 246 m
Belt Width:	1,200 mm – 1,400 mm
Capacity:	128 t/h – 2,300 t/h
Installed Power:	(2 x) 1 x 22 kW (Main drive)
	(5 x) 1 x 45 kW (Main drive)
	(4 x) 75 kW (Main drive)
	(3 x) 132 kW (Main drive)
	(2 x) 1 x 250 kW (Main drive)
	(2 x) 2 x 250 kW (Main drive)
Installation:	2013



■ Process Plant Chernigowec, Berezovskij, Russia

Contractor: OOO TD "SDS-Trade"



Mineral:	Coal
Conveyor Length:	8.5 - 541 m
Belt Width:	1,200 mm / 1,400 mm
Capacity:	40 - 1,000 t/h
Installed Power:	4 kW - 2 x 200 kW
Installation:	2013



■ Process Plant Chegdomyn, Habarovsk, Russia

Contractor: OAO "SUEK"



Mineral:	Coal
Conveyor Length:	12 - 246 m
Belt Width:	1,200 / 1,400 / 1,600 mm
Capacity:	200 - 2,300 t/h
Installed Power:	1 x 22 kW - 2 x 250 kW
Installation:	2013

■ Stacker, Mining Prokopjewsk, Russia

Contractor: Alta a.s.



Mineral:	Coal
Conveyor Length:	70 m
Belt Width:	1,600 mm
Capacity:	3,500 t/h
Installed Power:	2 x 200 kW
Stock Capacity:	110,000 t
Installation:	2011



■ Copper Mine, Tunnel Sur Los Bronces - Santiago de Chile, Chile

Contractor: DRAGADOS BESALCO S.A.



Tunnel Diameter:	4.50 m
Mineral:	Hard Rock
TBM Supplier:	Seli
Conveyor Length:	8,125 m
Belt Width:	650 mm
Capacity:	330 t/h
Installed Power:	2 x 160 kW 1 x 90 kW
Belt Storage Capacity:	500 m / horizontal
Installation:	2009

■ Coal Mine, Juschnaja, Russia

Contractor: OAO Bergwerk "Juschnaja"



Underground Mine Belt Conveyor 01

Mineral:	Coal
Conveyor Length:	1,120 m
Belt Width:	1,200 mm
Capacity:	1,700 t/h
Installed Power:	4 x 250 kW
Installation:	2008

Underground Mine Belt Conveyor 02

Mineral:	Coal
Conveyor Length:	2,500 m
Belt Width:	1,200 mm
Capacity:	1,600 t/h
Installed Power:	2 x 250 kW
Belt Storage Capacity:	225 m
Installation:	2009

Ground Mine Belt Conveyor

Mineral:	Coal
Conveyor Length:	160 m
Belt Width:	1,200 mm
Capacity:	1,800 t/h
Installed Power:	1 x 250 kW
Installation:	2008

Stacker

Mineral:	Coal
Conveyor Length:	27 m
Belt Width:	1,200 mm
Capacity:	1,800 t/h
Installed Power:	2 x 45 kW
Installation:	2008



■ Copper Mine, Nurgaskan / Karaganda, Kazakhstan

Contractor: PO "Karagandazwetmet" Filiale TOO "Korporation Kasachmys"



Belt Conveyor	01	02
Mineral:	Copper Ore	Copper Ore
Conveyor Length:	2,000 m	400 m
Belt Width:	1,200 mm	1,200 mm
Capacity:	800 t/h	800 t/h
Installed Power:	4 x 355 kW	1 x 355 kW
Installation:	2008	2008



■ Dam Construction, Algeria

Contractor: JV CMC – Razel



Min. Radius:	> 1,500 m
Mineral:	Sand / Gravel
Conveyor Length:	264 m / 483 m / 32 m
Belt Width:	1,000 mm
Capacity:	1,000 t/h
Installed Power:	200 kW
Installation:	2005

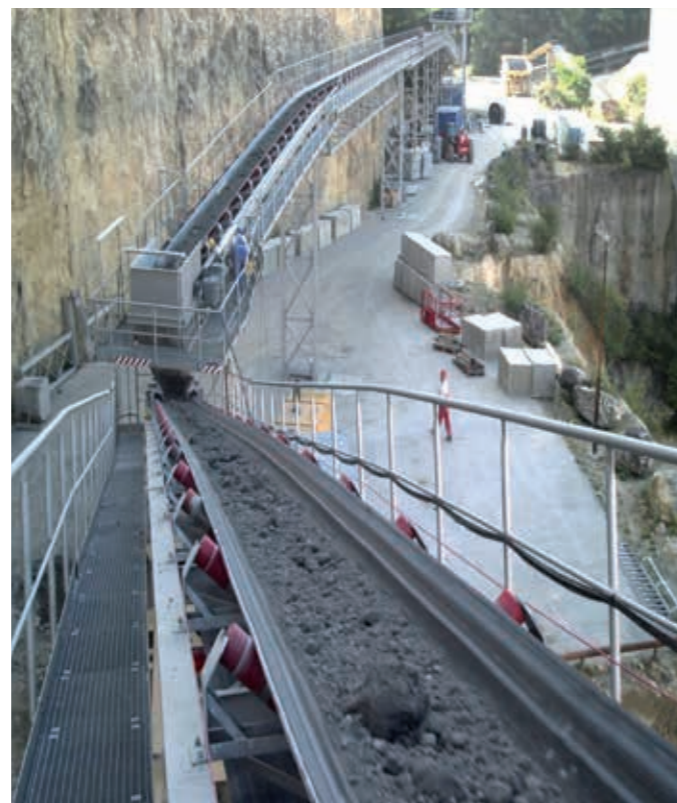


■ Quarry Distribution Conveyor, Germany

Contractor: JV Katzenbergtunnel



Number of Conveyors:	6
Belt Width:	1,000 mm
Capacity:	1,500 t/h
Installed Power:	800 kW
Installation:	2005



■ Main Drift Conveyor, Russia

Contractor: ZAO Salek



Mineral:	Coal
Conveyor Length:	> 750 m
Belt Width:	1,200 mm
Capacity:	1,500 t/h
Installed Power:	4 x 250 kW
Installation:	2004



Further projects

Project / Contractor:	Tunnel Diameter:	Min. Radius:	Mineral:	TBM Supplier:	Conveyor Length:	Belt Width:	Capacity:	Installed Power:	Belt Storage Capacity:	Installation:
RAILWAY TUNNELLING										
S-419/S-420 Railway Tunnel, Herrengosserstedt, Germany / Arbeitsgemeinschaft Finnetunnel	10.90 m	> 1,000 m	Hard Rock	Herrenknecht	6,920 m	1,000 mm	1,200 t/h	3 x 250 kW	600 m/horizontal	2008
Railway Tunnel, Schlüchtern, Germany / Hochtief AG	9.90 m	> 3,000 m	Sandstone / Mudstone	NFM	4,000 m	1,000 mm	1,200 t/h	2 x 315 kW	500 m/horizonta	2007
Railway Tunnel, Pajares Lot III, Spain / Pajares 3 U.T.E. · Ferrovial, Sacyr, Cavosa	9.50 m	> 4,000 m	Hard Rock	NFM	10,230 m	1,200 mm	1,000 t/h	3 x 250 kW	500 m/horizontal	2006
S-303/4 Railway Tunnel Wienerwald, Austria / JV Hochtief - Bilfinger Berger - Porr - Jäger	-	-	-	Herrenknecht	2 x 7,000 m	1,000 mm	1,200 t/h	1,800 kW	500 m/horizontal	2005
S-315 Railway Tunnel S. Lorenzo Al Mare Andora, Italy / Ferrovial	-	-	Hard Rock	Herrenknecht	4,000 m	1,000 mm	1,250 t/h	630 kW	600 m/horizontal	2005
S-281 High Speed Railway Tunnel, Pajares Lot II, Spain / JV Pajares Lote 2 U.T.E · Dragados, Obras y Construcciones	9.50 m	-	Hard Rock	Herrenknecht	9,300 m	1,000 mm	1,200 t/h	3 x 355 kW (Head) 7 x 355 kW (Booster)	500 m/horizontal	2005
S-287 High Speed Railway Tunnel, Pajares Lot I, Spain / JV U.T.E, FCC, Necso	9.50 m	> 800 m	Hard Rock	Herrenknecht, Wirth	2 x 10,800 m	1,000 mm	1,250 t/h	3 x 355 kW (Head) 2 x 355 kW (Booster)	500 m/horizontal	2005
S-202 High Speed Railway Tunnel, Guadarrama, Spain / JV Tunel de Guadarrama Sur U.T.E. Nescó - Dragado - Tesca - OHL - Guinovart - Sacyr - Comsa 9.10 m	9.10 m	> 4,000 m	Granite	Herrenknecht, Wirth	2 x 14,000 m	1,000 mm	1,150 t/h	2 x 250 kW (Head) 3 x 250 (Booster)	500 m/horizontal	2002/2003
Access Tunnel To Gotthard Basic Tunnel, Switzerland / Aggregat AG - JV AGN Amsteg, Switzerland, Strabag - Murer	9.10 m	> 375 m	Granite	-	2 x 1,990 m	800 mm	2 x 650 t/h	2 x 132 kW (Head) 2 x 132 kW (Booster)	-	2002/2003
ROAD TUNNELLING										
S-375/S-376 Road Tunnel, Brisbane, Australia / Leighton Contractors and Boulderstone Hornibrook Bilfinger Berger Joint Ventures	12.34 m	> 670 m	Stone	Herrenknecht	4,870 m	1,000 mm	1,500 t/h	4 x 355 kW	600 m/horizontal	2008
S-340/S-341 City Tunnel, Malmö, Sweden / MCG Malmö Citytunnel Group, Sweden	8.89 m	> 600 m	Clay/Sand	Herrenknecht	5,280 m; 5,250 m	800 mm	600 t/h	2 x 315 kW	500 m/horizontal	2006
M30/Highway Tunnel, Madrid, Spain / Dragados-FCC	15.10 m	> 500 m	Clay/Sand	Mitsubishi	4,000 m	1,600 mm	3,000 t/h	4 x 315 kW	500 m/horizontal	2005
S-300 M 30/Highway Tunnel, Madrid, Spain / U.T.E By-Pass Sur Tunel Norte · Ferrovial - Necso	15.20 m	> 500 m	Clay	Herrenknecht	3,750 m	1,600 mm	2,750 t/h	4 x 315 kW	500 m/horizontal	2005
S-339 Safety Tunnel Lugano, Switzerland / Hochtief AG	4.54 m	> 3,000 m	Hard Rock	Herrenknecht	2,400 m	650 mm	360 t/h	180 kW	600 m/horizontal	2005
S-251 Road Tunnel, Valsugana, Italy / TOTO S.p.a	11.30 m	> 500 m	Hard Rock	Herrenknecht	2 x 2,800 m	1,000 mm	1,500 t/h	2 x 160 kW	400 m/horizontal	2004/2005
Highway Tunnel, Tokyo, Japan / Sankyu - Obayashi	12.05 m	> 500 m	Sand/Gravel	Mitsubishi	2,020 m	800 mm	560 t/h	2 x 90 kW	400 m/horizontal	2004
Highway Tunnel, Uetliberg, Switzerland / JV Uetlibergtunnel	10.90 m	> 500 m	Granite	Wirth	2,855 m	1,000 mm	800 t/h	2 x 160 kW	-	2003
S-193 Port Tunnel, Dublin, Ireland / Nishimatsu Construction Co. Ltd.	11.20 m	> 700 m	Clay	Herrenknecht	2 x 2,800 m	1,000 mm	1,000 t/h	2 x 200 kW	400 m/horizontal	2002/2003
METRO TUNNELLING										
Metro Tunnel Milan Line 5, Italy / Ghella S.p.a	9.40 m	> 2,000 m	Clay	Seli	3,615 m	1,000 mm	800 t/h	3 x 200 kW	500 m/horizontal	2008
Metro Tunnel Dubai, United Arab Emirates / Obayashi-Kajima-Yapi Merkezi	9.60 m	> 250 m	Clay/Sand	Mitsubishi	2,000 m	800 mm	650 t/h	2 x 90 kW (Head) 1 x 90 kW (Booster)	1 x 400 m/horizontal, 1 x 400 m/vertical	2007
S-328 Metro Tunnel Strogino/Moscow, Russia / Mosmetrostroy	5.60 m	> 300 m	Clay/Sand	Herrenknecht	3,100 m	650 mm	350 t/h	2 x 160 kW	400 m/vertical	2006

Project / Contractor:	Tunnel Diameter:	Min. Radius:	Mineral:	TBM Supplier:	Conveyor Length:	Belt Width:	Capacity:	Installed Power:	Belt Storage Capacity:	Installation:
METRO TUNNELLING										
S-343 Metro Tunnel Abronigales, Spain / Ferrovial	7.67 m	> 300 m	Clay/Sand/Gravel	Herrenknecht	4,800 m	1,000 mm	650 t/h	2 x 250 kW, 1 x 132 kW, 1 x 90 kW	400 m/vertical	2006
S-342 Metro Tunnel Marseille, France/Campenon Bernard Mediterranee	9.45 m	> 250 m	Clay	Herrenknecht	2,300 m	1,000 mm	900 t/h	400 kW	400 m/vertical	2006
S-320 Metro Tunnel Almathy, Kazakhstan / Almatymetrokurylis	5.60 m	> 300 m	Clay/Sand	Herrenknecht	2,000 m	650 mm	350 t/h	2 x 75 kW	500 m/horizontal	2006
S-299 Metro Tunnel Madrid, Spain / Ferrovial	9.93 m	-	Clay	Herrenknecht	2,500 m	1,000 mm	1,200 t/h	511 kW	400 m/vertical	2005
S-295 Metro Tunnel Madrid, Spain / Necso	9.33 m	-	Clay	Herrenknecht	5,500 m	1,000 mm	1,200 t/h	840 kW	400 m/vertical	2005
S-274 Metro Tunnel Madrid, Spain / Sacyr	8.71 m	> 250 m	Clay	Herrenknecht	5,000 m	1,000 mm	1,100 t/h	660 kW	500 m/horizontal	2005
S-255 Metro Tunnel Gijon, Spain / Necso	10.55 m	> 500 m	Sand/Gravel	Herrenknecht	3,600 m	1,000 mm	1,150 t/h	4 x 132 kW	500 m/horizontal	2004
S-221 Metro Tunnel Barcelona, Line 9, Spain / JV U.T.E. GORG, Dragados - Necso - Comsa - Sorigue	12.05 m	> 250 m	Clay	Herrenknecht	6,000 m	1,200 mm	930 t/h	2 x 132 kW (Head) (4) 1 x 132 kW (Booster)	500 m/horizontal	2003
S-249 Metro Tunnel Athens, Greece / J/V Aktor - Aege - J&P Avax - Seli	9.50 m	> 300 m	Clay	Herrenknecht	3,500 m	800 mm	350 t/h	4 x 90 kW	450 m/horizontal	2002
S-208 Metro Toulouse, Line B, Lot 2, France / JV Chantier Du Metro De L'Agglomeration Eiffage T.P. - Campenon Bernard T.P	7.70 m	> 200 m	Clay/Sand	Herrenknecht	5,100 m	800 mm	600 t/h	2 x 90 kW (Head) (3) 1 x 90 kW (Booster)	400 m/vertical	2002
UTILITY TUNNELLING										
Water Tunnel St. Just, Barcelona, Spain / U.T.E. Túnel Sant Just	5.70 m	> 350 m	Hard Rock	Seli	5,650 m	800 mm	600 t/h	4 x 110 kW	500 m/horizontal	2008
Water Tunnel, Trinitat - Barcelona, Spain / Obrascun Huarte Lain, S.A.	6.00 m	> 350 m	Hard Rock	Herrenknecht	6,200 m	650 mm	400 t/h	2 x 200 kW	500 m/horizontal	2008
Water Tunnel, Valle de Aosta - Quincinetto, Italy / Cogeis S.p.a.	3.74 m	> 500 m	Hard Rock	Atlas Copco	4,500 m	650 mm	300 t/h	2 x 90 kW	400 m/vertical	2008
S-400 Hydro Power Tunnel, Tapovan, India / Apline Mayreder Bau GmbH / Larsen & Toubro Joint Venture	6.20 m	> 350 m	Hard Rock	Herrenknecht	8,300 m	650 mm	400 t/h	3 x 160 kW	500 m/horizontal	2008
S-370 Water Tunnel, Veligonda, India / Nuziveedu Swathi Coastal Consortium	8.03 m	> 2,000 m	Hard Rock	Herrenknecht	17,700 m	800 mm	760 t/h	6 x 315 kW	500 m/horizontal	2008
S-378 Power Development Waterway, Bogong, Australia / McConnel Dowell Constructors (Aus) Pty Ltd.	5.00 m	> 350 m	Rock	Herrenknecht	6,500 m	650 mm	275 t/h	2 x 90 kW	600 m/horizontal	2008
S-391 Water Tunnel Melen 7, Turkey / Mosmetrostroj	6.10 m	> 500 m	Sand/Clay	Herrenknecht	3,450 m	650 mm	350 t/h	2 x 160 kW, 1 x 75 kW	400 m/vertical	2008
Hydro Power Tunnel Niagara Falls, Ontario, Canada / STRABAG Inc.	14.44 m	> 800 m	Hard Rock	Robbins	10,400 m	1,000 mm	1,600 t/h	6 x 355 kW	600 m/horizontal	2006
S-351 Hydro Power Tunnel, Glendoe, Scotland / Hochtief AG	5.03 m	> 750 m	Hard Rock	Herrenknecht	8,100 m	650 mm	360 t/h	4 x 90 kW	600 m/horizontal	2006
S-340/S-341 City Tunnel, Malmö, Sweden / MCG Malmö Citytunnel Group, Sweden	8.89 m	> 600 m	Clay/Sand	Herrenknecht	5,280 m; 5,250 m	800 mm	600 t/h	2 x 315 kW	500 m/horizontal	2006
S-331 Long Distance Heating Tunnel, Copenhagen, Denmark / KFT-JV Københavens Fjernvarme Tunnel	5.08 m	-	Clay/Sand	Herrenknecht	3,900 m	800 mm	300 t/h	3 x 90 kW, 1 x 75 kW	400 m/vertical	2006
Pilot Tunnel Fae, Italy / STRABAG	5.00 m	> 600 m	Hard Rock	Atlas Copco	2,200 m	800 mm	300 t/h	2 x 90 kW	400 m/vertical	2005

Progress as a principle

Since 2009, H+E has operated its own production and storage facility in Aschersleben, Germany. In addition to setting up a state-of-the-art machine facility for manufacturing our conveyor belt systems, we have also been able to centralise our used-equipment warehouse here, with the aim of optimising the reuse of components. H+E is thereby helping to reduce environmental pollution while safeguarding its own production. Risks from delayed deliveries or supplier failures are reduced to a minimum to ensure consistently high quality in the manufacture and assembly of key components.

H+E continues to expand and invest in Aschersleben by further developing its component production and modernising its IT systems.





H+E Competence – Applied worldwide